

# **भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान** पुणे **INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE**

# **BS MS DUAL DEGREE TRANSCRIPT**

Name of the student

RAJDEEP HALDAR

Roll Number

20151011

Year of Joining

2015

Year of completion

2020

**Total Credits** 

215

**CGPA** 

9.2



Biology	28	8 Humanities and Social Sciences		Physics	
Chemistry	21	Inter Disciplinary Courses	8	Transdisciplinary	0
Earth and Climate Science	4	Mathematics	93	Project	36

Specialisation: Mathematics

Master's project: Topological Data Analysis

Code	Course Title	CR	GR	Code	Course Title	CR	GR
BIO101	Introductory Biology I- Basic Principles	3	В	MTH202	Probability and Statistics		Α
BIO102	IO102 Introductory Biology II: Cellularand Molecular		В	MTH204	Basic Structures of Mathematics	2	Α
Biology		3		PHY201	World of Physics III- Electricity & Magnetism	3	Α
BIO121	9		В	PHY202 World of Physics IV - Quantum Physics		3	0
BIO122	01 Chemical Principles I		В	PHY221	Physics lab II Physics Lab III		A
CHM101			В	PHY222			
CHM102	Chemical Principles II		Α	BIO310 Biostatistics MTH310 Group Theory MTH311 Analysis		4	Α
CHM121	Chemistry Lab I		Α			-	-
HSS102	S102 Critical Reading and Communication		Α			4	В
IDC101	102 Mathematical Methods		В		Analysis Point Set Topology Statistical Inference		B O
IDC102			Α	MTH312			
MTH100			Α	MTH314			
MTH101	Single Variable Calculus	3	Α	MTH318	Combinatorics	4	Α
MTH102	02 Multi Variable Calculus		В	MTH320	Vector Spaces Rings and Modules		В
PHY101	World of Physics I- Mechanics	3	Α	MTH321	Complex Analysis	4	В
PHY102	102 World of Physics II- Waves and Matter		A A A A A B	MTH322	Calculus on Manifolds		В
PHY121				MTH323	Graph Theory	4	Α
		3		MTH328 MTH340 BIO451	Coding Theory	4	В
BIO201	Introductory Biology IV: Biology of Systems Biology Lab III Principles of Inorganic Chemistry Principles of Organic Chemistry Chemistry lab II Chemistry Lab III Earth System I Earth System II Introduction to History of Science Technology and Medicine				Topics in Algebra - Additive Number Theory		A A A A A A O A
BIO202					Data Science		
BIO221				MTH401	Lab Training/Theory Project Theory Project Functional Analysis Algorithms Probability Ordinary Differential Equations Measure Theory & Integration Partial Differential Equations		
CHM201				MTH402			
CHM202			В	MTH411			
CHM221			A A A A	MTH413			
CHM222				MTH415			
ECS201				MTH417 MTH421			
ECS202							
HSS201				MTH424			
IDC202			В	MTH426	Stochastic Processes	4	В
MTH201	Linear Algebra	2 E		PRJ501	Project Part I	18	
				PRJ502	Project Part II	18	9.1

Date of issue: 29-Jun-2020



Dean, Academics

प्रो. भास बापट/Prof. Bhas Bapat अधिष्ठाता, शैक्षिक / Dean, Academics भारतीय विज्ञान शिक्षा एवं अनुसंधान संरथान Indian Institute of Science Education & Research पुणे - 411 008, भारत /Pune- 411 008, India

### · Legend for abbreviations

Biology – BIO, Chemistry – CHM, Earth and Climate Sciences – ECS, Humanities and Social Sciences – HSS, Mathematics – MTH, Physics – PHY, Interdisciplinary Course – IDC, Transdisciplinary Course – TDC, Master's thesis project – PRJ, Cumulative Grade Point Average on a 10-point scale – CGPA

#### Grade Values

O (Outstanding) = 10, A = 10, B = 8, C = 6, D = 4, F = 0, P = Passed without Credit.

#### Score for Master's thesis project

Score indicates marks out of 10.

#### Credit Requirements

Students are required to complete 95 credits in Semesters 1—4 (Courses of Levels 1 and 2), and 84 credits in Semesters 5—8 (Courses of Levels 3 and above).

#### Specialisation

A student is deemed to have specialised in a certain discipline, if 50% or more credits in semesters 5—8 are from that discipline.

### Medium of Instruction

The medium of instruction for all courses is English. No separate certificate is issued for this.

## Conversion from CGPA to percentage

The following formula is applied for conversion of CGPA to percentage:

 $(CGPA - 0.5) \times 10 = percentage.$ 

No separate certificate is issued for this equivalence.

## Correspondence between BS MS and Bachelor's and Master's degrees

The first three years of the programme notionally pertain to the BS degree.

The last two years of the programme notionally pertain to the MS part of the degree.

No separate certificate is issued for this equivalence.

#### · BS Exit

Students who have completed the course credits, but are unable to complete the MS project may elect to exit with a BS degree. The BS exit is only permitted after completion of 5 years in the programme.